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- 1 1. A method of preventing interference in a communication
2 system comprising the steps of:
3 generating a fixed reuse pattern in a service area from a high altitude
4 communications device, said pattern having at least a first resource cell and a
5 second resource cell;
6 selectively suppressing a side lobe of a beam having a first resource
7 so a non-side lobe suppressed portion aligns with a cell having said second
8 resource.
- 1 2. A method as recited in claim 1 wherein the step of
2 selectively suppressing comprises the step of reshaping the antenna to suppress side
3 lobe interference at the interference locations.
- 1 3. A method as recited in claim 2 further comprising the step of
2 maintaining the shape of the antenna in non-interference locations.
- 1 4. A method as recited in claim 1 wherein said first resource
2 and said second resource comprise a frequency.
- 1 5. A method as recited in claim 1 wherein said first resource
2 and said second resource comprise polarization.
- 1 6. A method as recited in claim 1 wherein said first resource
2 and said second resource comprise an orthogonal code.
- 1 7. A method as recited in claim 1 wherein said high altitude
2 communication device comprises a satellite.

1 14. A method as recited in claim 9 wherein said first resource
2 and said second resource comprise a code.

1 16. A method as recited in claim 15 further comprising the step
2 of maintaining the shape of the antenna in non-interference locations.

1 18. A method as recited in claim 17 wherein said first resource
2 and said second resource comprise a frequency.

1 20. A method as recited in claim 17 wherein said first resource
2 and said second resource comprise an orthogonal code.

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